IN THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the abovereferenced application.

- 1. (Currently Amended) A structure comprising:
 - a semiconductor light emitting device; and
- a substrate comprising a ceramic core and at least one copper layer overlying and in contact with the core, the at least one copper layer having a thickness of at least 4 mils;

wherein the semiconductor light emitting device is electrically connected to the at least one of the copper layers and wherein a path from the at least one copper layer to the ceramic core is thermally conductive.

- 2. (Original) The structure of claim 1 wherein the semiconductor light emitting device comprises a III-nitride light emitting layer.
- 3. (Currently Amended) The structure of claim 1 wherein the core comprises a material selected from the group of eeramie, Al₂O₃, AlN, alumina, and silicon nitride.
- 4. (Currently Amended) The structure of claim 1 further comprising at least one lead connected to at least one of the copper layers the substrate.
- 5. (Currently Amended) The structure of claim 1 further comprising at least one solder pad connected to at least one of the copper layers the substrate.
- 6. (Currently Amended) The structure of claim 1 further comprising at least one terminated wire connected to at least one of the copper layers the substrate.
- 7. (Original) The structure of claim 1 wherein the at least one copper layer is bonded to the core by a direct copper bond.
- 8. (Original) The structure of claim 1 wherein the at least one copper layer is bonded to the core by an active metal braze.
- 9. (Currently Amended) The structure of claim 1 wherein the at least one copper layer

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has a thickness between about 4 mils and about 24 mils.

- 10. (Original) The structure of claim 1 wherein the substrate is a first substrate, the structure further comprising a second substrate disposed between the semiconductor light emitting device and the first substrate.
- 11. (Original) The structure of claim 10 wherein the second substrate comprises at least one metal bonding pad and an insulating layer.
- 12. (Currently Amended) The structure of claim 11 wherein the insulating layer comprises one of AlN, Al₂O₃, and silicon nitride.
- 13. (Original) The structure of claim 10 wherein the second substrate comprises a silicon integrated circuit.
- 14. (Original) The structure of claim 1 further comprising a base connected to the substrate.
- 15. (Original) The structure of claim 1 further comprising a lens disposed over the semiconductor light emitting device.
- 16. (Currently Amended) The structure of claim 1 wherein the at least one copper layer is bonded to the core.
- 17. (Currently Amended) The structure of claim 1 wherein the at least one copper layer is bonded to the core by a process comprising:

forming an oxide coating on a sheet of copper;
placing the oxide coating adjacent to the core; and

heating the oxide coating to form a cutectic melt.

18. (Withdrawn) A method of packaging a semiconductor light emitting device, the method comprising:

providing a substrate having a ceramic core and at least one copper layer, the at least one copper layer having a thickness of at least 4 mils; and

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electrically connecting a semiconductor light emitting device to at least one of the copper layers.

- 19. (Withdrawn) The method of claim 18 further comprising attaching at least one lead to the at least one copper layer.
- 20. (Withdrawn) The method of claim 18 wherein the substrate is a first substrate, the method further comprising:

mounting the semiconductor light emitting device on a second substrate; and after mounting the semiconductor light emitting device on the second substrate, mounting the second substrate on the first substrate.

- 21. (Withdrawn) The method of claim 18 further comprising: providing a lens over the semiconductor light emitting device.
- 22. (Withdrawn) The method of claim 18 further comprising bonding the copper layer to the core by:

forming an oxide coating on a sheet of copper;

placing the oxide coating adjacent to the core; and
heating the oxide coating to form a eutectic melt.

- 23. (Previously Presented) The structure of claim 1 wherein the substrate has a thermal conductivity of at least 24 W/m K.
- 24. (New) The structure of claim 1 wherein the at least one copper layer is in direct contact with the ceramic core.

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